WE CLAIM:

A pharmaceutical composition comprising:

effective amount of an active ingredient that is metabolized by 5α -reductase,

water-swellable cross-linked water insoluble, polycarboxylic polymer, and

a water soluble polymer,

wherein said composition is formulated to deliver said active ingredient to the bloodstream of a mammal through a mucosal surface of the mammal.

The composition of claim 1, wherein said active ingredient is present in about 50% by weight or less.

The composition of claim 1, wherein said active ingredient is testosterone or progesterone.

composition The ο£ claim 3, wherein said composition is formulated to deliver said active ingredient via the mammal's vaginal cavity.

composition of claim 3, wherein The composition is formulated to deliver said active ingredient via the mammal's buccal cavity.

The composition of claim 3, wherein said active ingredient is testosterone and said testosterone is present in an amount of about 1% to about 30% by weight.

method of delivering to a mammal an active ingredient that is metabolized by 5α -reductase, comprising administering said/ active ingredient via a progressive

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hydration bioadhesive composition through a mucosal surface of the mammal.

The method of claim 7, wherein the composition comprises:

a water insoluble, later-swellable cross-linked polycarboxylic polymer,

a water soluble polymer, and said active ingredient

The method of claim 8, wherein said active ingredient is testosterone or progesterone.

The method of claim 9, wherein said active ingredient is testosterone, and said method provides a blood serum concentration ratio of testosterone to 5α -dihydrotestosterone (DHT) of about 10 to 1 or greater in the bloodstream of said mammal.

20 11. A composition for delivering to the bloodstream of a mammal an active ingredient that is metabolized by 5α -reductase, comprising:

a water insoluble cross-linked polycarboxylic polymer, and

a water soluble polymer

wherein said composition is formulated to deliver said active ingredient through a mucosal surface of the mammal.

\$\ 12. The composition of claim 11, wherein said active ingredient is testosterone or progesterone.

composition of claim 13, wherein said composition *formulated to provide а blood is testosterone concentration ratio . of 5α -dihydrotestosterone VDHT) of about 10 to 1 or greater in the bloodstream, of said mammal.

composition Z(o claim The 11, wherein composition is formulated to deliver said active ingredient via the mammal's nasal cavity.

composition of claim 11, wherein composition is formulated to deliver said active ingredient via the mammal's rectal cavity.

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